

Title (en)  
TUNABLE RADIO FRONT END AND METHODS

Title (de)  
EINSTELLBARES FUNK-FRONT-END UND VERFAHREN DAFÜR

Title (fr)  
SYSTÈME FRONTAL À RADIO ACCORDABLE ET PROCÉDÉS ASSOCIÉS

Publication  
**EP 2609686 A2 20130703 (EN)**

Application  
**EP 11820747 A 20110826**

Priority  
• US 40226710 P 20100826  
• US 2011049410 W 20110826

Abstract (en)  
[origin: WO2012027703A2] Tunable radio front end systems and methods are disclosed in which the tunable radio front end includes a first tunable impedance matching network, a second tunable impedance matching network, a transmission signal path, and a reception signal path. The transmission signal path can include a first tunable filter in communication with the first tunable impedance matching network, a tunable power amplifier connected to the first tunable filter, and a radio transmitter connected to the tunable power amplifier. The reception signal path can include a second tunable filter in communication with the second tunable impedance matching network, a tunable low-noise amplifier connected to the second tunable filter, and a radio receiver connected to the tunable low-noise amplifier.

IPC 8 full level  
**H04B 1/44** (2006.01); **H03F 3/20** (2006.01); **H03F 3/24** (2006.01); **H03F 3/68** (2006.01); **H03H 7/38** (2006.01)

CPC (source: EP US)  
**H03F 1/565** (2013.01 - EP US); **H03F 3/195** (2013.01 - EP US); **H03F 3/245** (2013.01 - EP US); **H03F 3/68** (2013.01 - EP US); **H04B 1/0458** (2013.01 - EP US); **H04B 1/18** (2013.01 - EP US); **H04B 1/56** (2013.01 - EP US); **H03F 2200/111** (2013.01 - EP US); **H03F 2200/165** (2013.01 - EP US); **H03F 2200/171** (2013.01 - EP US); **H03F 2200/222** (2013.01 - EP US); **H03F 2200/294** (2013.01 - EP US); **H03F 2200/318** (2013.01 - EP US); **H03F 2200/387** (2013.01 - EP US); **H03F 2200/391** (2013.01 - EP US); **H03F 2200/429** (2013.01 - EP US); **H03H 7/0115** (2013.01 - EP US); **H03H 7/1783** (2013.01 - EP US)

Cited by  
US9866266B2; US8902113B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012027703 A2 20120301**; **WO 2012027703 A3 20120419**; CN 103155431 A 20130612; CN 103155431 B 20150819; EP 2609686 A2 20130703; EP 2609686 A4 20140430; EP 2609686 B1 20191009; US 2012169565 A1 20120705; US 8736511 B2 20140527

DOCDB simple family (application)  
**US 2011049410 W 20110826**; CN 201180041496 A 20110826; EP 11820747 A 20110826; US 201113219343 A 20110826